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CLAIM AMENDMENTS

IN THE CLAIMS

This listing of the claims will replace all prior versions, and listing, of claims in the application or previous response to office action:

1. (Currently Amended) A method for fabricating a transmission balanced photomask, the method comprising:

forming an alternating aperture phase shifting photomask pattern on a substrate having trenches formed therein and the substrate having an index of refraction, the alternating aperture phase shifting pattern comprising a patterned absorber layer; and

forming a single layer of transmission balancing material over the substrate <u>and the</u> <u>patterned absorber layer</u>, the transmission balancing material having an index of refraction greater than the index of refraction of the substrate and being substantially transparent to at least one wavelength.

- 2. (Original) The method of Claim 1 wherein the transmission balancing material further comprises spin on glass (SOG).
- 3. (Currently Amended) The method of Claim 1 further comprising overcoating the transmission balancing material on the substrate and the patterned absorber layer.
- 4. (Original) The method of Claim 1 further comprising the layer of transmission balancing material having an index of refraction greater than 1.5.
- 5. (Original) The method of Claim 1 further comprising the layer of transmission balancing material having an index of refraction approximately equal to 2.0.
- 6. (Original) The method of Claim 1 further comprising planarizing the transmission balancing layer.

- 7. (Original) The method of Claim 6 further comprising planarizing the transmission balancing layer using a chemical mechanical polishing (CMP) technique.
- 8. (Original) The method of Claim 1 further comprising forming an antireflective layer on the transmission balancing layer.
- 9. (Original) The method of Claim 1 further comprising attaching a pellicle over the transmission balancing layer.
- 10. (Original) The method of Claim 1, wherein forming the transmission balancing layer comprises using a technique selected from the group consisting of physical vapor deposition, chemical vapor deposition, and gas phase deposition techniques.
- 11. (Previously Presented) A method for fabricating a phase shifting mask, the method comprising:

providing an etched transparent substrate having a recessed transmissive portion, the etched substrate having a first refractive index;

depositing an absorber layer on the etched substrate;

patterning the absorber layer; and

forming a single transmission balancing layer on the resulting patterned absorber layer, the transmission balancing layer having a second refractive index greater than the first refractive index and being substantially transparent to at least one wavelength.

- 12. (Original) The method of Claim 11, further comprising planarizing the transmission balancing layer.
- 13. (Original) The method of Claim 11, wherein the transmission balancing layer comprises spin-on glass (SOG).

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- 14. (Original) The method of Claim 11 further comprising the transmission balancing layer having an index of refraction greater than 1.5.
- 15. (Original) The method of Claim 11 further comprising the transmission balancing layer having an index of refraction of approximately 2.0.
 - 16. (Previously Presented) A phase shifting mask, comprising: an etched transparent substrate including a recessed transmissive portion; a patterned absorber layer deposited on the substrate; and
- a single transparent transmission balancing layer formed on the patterned absorber layer, the transmission balancing layer operable to retain refracted light within recessed transmissive portion.
- 17. (Previously Presented) The phase shifting mask of Claim 16, wherein the substrate has a first refractive index and the transmission balancing layer has a second refractive index greater than the first refractive index.
- 18. (Original) The phase shifting mask of Claim 16, wherein the transmission balancing layer comprises spin-on glass (SOG).
- 19. (Original) The phase shifting mask of Claim 16, wherein the substrate comprises quartz.
- 20. (Original) The phase shifting mask of Claim 16 further comprising the transmission balancing layer having an index of refraction approximately equal to 2.0.

patterning the absorber layer; and

21. (Previously Presented) A method for fabricating a phase shifting mask, the method comprising:

providing an etched transparent substrate having a recessed transmissive portion; depositing an absorber layer on the etched substrate;

forming a single transmission balancing layer on the resulting patterned absorber layer, the transmission balancing layer having a refractive index greater than the refractive index of air and being substantially transparent to at least one wavelength.

- 22. (Original) The method of Claim 21, further comprising planarizing the transmission balancing layer.
- 23. (Original) The method of Claim 21, wherein the transmission balancing layer comprises spin-on glass (SOG).
- 24. (Original) The method of Claim 21 further comprising forming the transmission balancing layer using a technique selected from the group consisting of vacuum evaporation, magnetron sputtering, ion beam sputtering, and chemical vapor deposition.